CITY OF FOLSOM

TRAFFIC CONTROL & LIGHTING TECHNICIAN I/II

DEFINITION

Under general supervision or direction, perform skilled electronic, electro-mechanical, microprocessor control, and electrical work in the installation, modification, maintenance, and repair of traffic signals and lighting control equipment. Traffic Control and Lighting Technician IIs may oversee, monitor, and/or direct the work of lower level personnel.

DISTINGUISHING CHARACTERISTICS

The Traffic Control & Lighting Technician I is the entry-level class of the technical/paraprofessional Traffic Control & Lighting Technician series. Initially under close supervision, incumbents perform the more routine duties while learning city policies and procedures and becoming familiar with the variety of departmental systems and practices. As experience is gained, duties become more diversified and are performed under more general supervision. This class is flexibly staffed with Traffic Control & Lighting Technician II and incumbents may advance to the higher level after two years and demonstrating proficiency that meets the qualifications.

The Traffic Control & Lighting Technician II is the experienced/journey level class in the series, fully competent to independently perform the duties. This class is distinguished from those in the lower classification of Traffic Control & Lighting Technician I by the relative independence with which they perform skilled electronic, electro-mechanical, microprocessor control, and electrical work in the installation, modification, maintenance, and repair of traffic signals and lighting control equipment. This class is distinguished from the Senior Traffic Control & Lighting Technician in that the latter serves either as the senior or advanced level specialist in the series.

EXAMPLES OF ESSENTIAL DUTIES

NOTE: The following are the duties performed by employees in this classification. However, employees may perform other related duties at an equivalent level. Each individual in the classification does not necessarily perform all the duties listed.

- Inspect signal controls, auxiliary equipment, and street lighting equipment to diagnose malfunctions; adjust and/or replace electronic, electrical, or mechanical components; and relamp traffic signals and streetlights.
- Repair, replace, or modify signal head components, controllers, relays, switches, fuses, timers, and cabinet parts; design and construct special test equipment for shop testing of electronic components.
- Perform street cut operations at designated signal locations.
- Set out barricades and traffic cones and re-route traffic as necessary for safe operations.

- Diagnose and repair electronic, electro-mechanical, and microprocessor controlled parking control equipment and periodically perform preventive maintenance and testing.
- Maintain schematic drawings, operations manuals, and problem and repair logs on related parking equipment.
- Perform related duties as assigned.

EMPLOYMENT STANDARDS

NOTE: The level and scope of the knowledge and abilities listed below are related to job duties as defined under Distinguishing Characteristics.

Knowledge of:

- Principles and practices of the installation, maintenance, and repair of complex electronic and electrical devices used in traffic control.
- Principles, methods, practices, materials, and tools used in the repair of electronic, electrical, and mechanical devices.
- Components and parts of electronic and electrical devices used in street lighting and traffic control.
- Principles of solid-state electronics and high voltage electricity.
- Occupational hazards and safety rules, regulations, and practices required in electrical and electronic work.

Ability to:

- Install, maintain, and repair electronic and electrical traffic control devices.
- Read and interpret plans, detailed drawings, schematics, and wiring diagrams.
- Prepare and maintain records such as problems and repair logs of parking equipment.
- Use electronic and computerized test equipment such as voltmeters, signal generators, oscilloscopes, insulation testers, frequency counters, and other related meters to locate malfunctions in control equipment.
- Operate a personal computer and other electronic equipment including field devices and cellular phones.
- Understand and follow complex and detailed oral and written instructions.
- Effectively communicate verbally and in writing.
- Establish and maintain effective working relationships with those contacted in the course of work.

Minimum Qualifications:

Traffic Control & Lighting Technician I

Education:

One (1) year of full-time college level training in electronics.

Experience:
Three (3) years of full-time experience maintaining and repairing electrical and solid-state electronic hardware, computers, related equipment, and/or street lighting equipment.

Substitution:
Additional qualifying experience can substitute for the required education on a year-for-year basis.

Traffic Control & Lighting Technician II

Education:
Full-time college level training in electronics may be substituted for the required experience on a year-for-year basis.

Experience:
Two (2) years of full-time experience as a Traffic Control & Lighting Technician I with the City of Folsom.

OR

Experience:
Five (5) years of full-time experience in the maintenance and repair of electrical equipment, solid-state electronic hardware, computers, or related equipment, which included three years working on traffic signal control and/or street lighting equipment.

Substitution:
Additional qualifying experience can substitute for the required education on a year-for-year basis.

License, Certificate, Registration Requirements:

Persons hired into the class of Traffic Signal Technician I must possess the International Municipal Signal Association (IMSA) Traffic Signal Technician I Certification.

Persons hired into the class of Traffic Signal Technician II must possess the International Municipal Signal Association (IMSA) Traffic Signal Technician II Certification.
Persons hired into the class of Senior Traffic Signal Technician must possess the International Municipal Signal Association (IMSA) Traffic Signal Technician III Certification and the International Municipal Signal Association (IMSA) Roadway Lighting Certification.

At the option of the City, persons hired into these classes may be required to either possess at entry or obtain within specified time limits, designated licenses, certificates or specialized education and training relevant to the area of assignment. Additional requirements for all levels may include, but are not limited to the following:

- Fiber Optics Installation Certification
- International Municipal Signal Association (IMSA) Traffic Signal Inspection Certification
- International Municipal Signal Association (IMSA) Traffic Signal Technician Certification at a level higher than described above
- Qualified Applicators Certificate or License for pesticide application
- California Class “A” Drivers License
- California Commercial “B” Drivers License with tanker and airbrake endorsements or with passenger endorsement
- International Municipal Signal Association (IMSA) Traffic Safety Specialist in Traffic Safety
- International Municipal Signal Association (IMSA) Signs and Markings Level I or II
- International Municipal Signal Association (IMSA) Traffic Safety Specialist and Traffic Safety Through Work Zones Certificates
- Cardio-Pulmonary Resuscitation (CPR)
- First Aid Certification
- Industrial Emergency Council (IEC) Confined Space Entry, Awareness and Rescue Certificate
- Forklift Certification

Physical Requirements:
Work is performed in a typical outdoor environment on a year-round basis. (1) Mobility: frequent performance of manual labor; frequent standing for long period of time; frequent bending and squatting. (2) Lifting: frequent lifting up to 50 pounds; occasional lifting up to 75 pounds. (3) Vision: constant use of overall vision. (4) Dexterity: frequent grasping, holding, and reaching. (5) Hearing/Talking: frequent hearing and talking, in person and on the phone. (6) Emotional/Psychological: frequent coworker contact; occasional working alone. (7) Environmental: frequent exposure to loud noise; frequent exposure to chemicals, fumes, and other environmental substances.

Other Requirements:
Must be willing to work weekends and holidays.

Information Block

Class Code:
FLSA Status:
Established:
Revised:
Retitled:
Workers Compensation Code
Bargaining Unit: